

## Advertisement for Postdoctoral Fellow

Applications are invited for the position of Postdoctoral Fellow at the Indian Institute of Technology Gandhinagar (IITGN) on a research project titled, “*Towards next generation ultra-strong and ultra-tough lightweight protective biomimetic composites: insights from molecular simulations*”.

### **Project Expectations:**

The project will involve large-scale molecular dynamics simulations of structure-property relationships and nanoscale phenomena responsible for high strength and high toughness in biomimetic composites. The candidate should have a strong background in Molecular Dynamics simulations, analysis and visualization tools, good programming skills and good fundamentals in statistical mechanics. Additional skills in Density Functional Theory (DFT), coarse graining interatomic potentials and continuum simulations are beneficial. The Fellow will work in a dynamic environment, will get to mentor students and contribute to other ongoing projects, while getting adequate intellectual freedom while pursuing the projects.

**Minimum Qualification:** Ph.D. (thesis submitted or degree awarded) in one of the following (or related) disciplines: Materials Science and Engineering, Chemical Engineering, Mechanical Engineering, Physics, Chemistry.

**Consolidated Monthly Pay:** 60,000 (consolidated).

**Term:** 1 year (extendable based on performance).

**Instructions for submitting applications:** Interested candidates must send their applications through [this online google form](#) before **10<sup>th</sup> July 2024** to be considered on priority. The shortlisted candidates will be invited for an interview.

**Contact information:** Prof. Raghavan Ranganathan, Indian Institute of Technology, Gandhinagar; email: rraghav@iitgn.ac.in